

FIGURE 1A

RAT CEREBRAL CORTICAL CULTURES EXPRESS EPO RECEPTOR

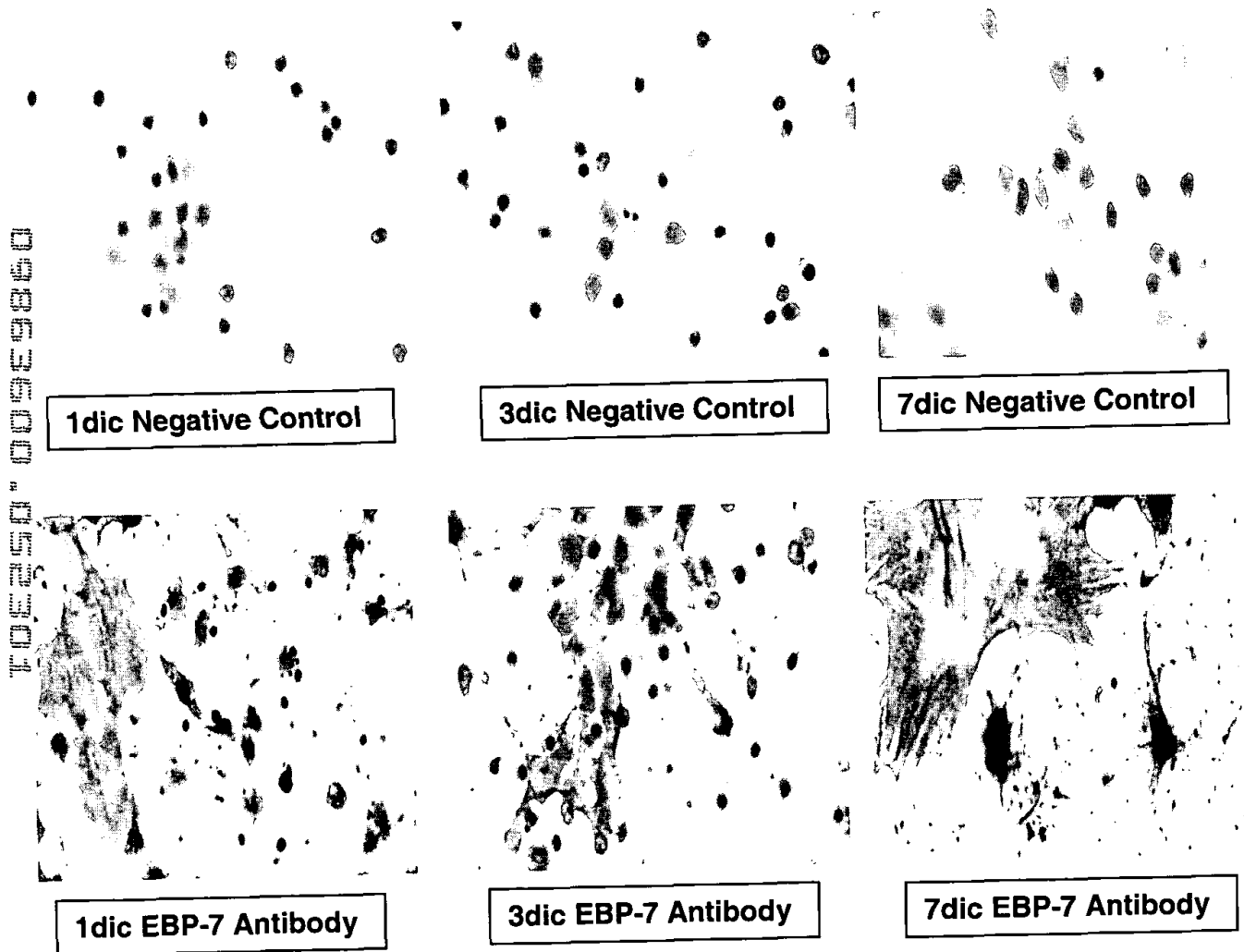
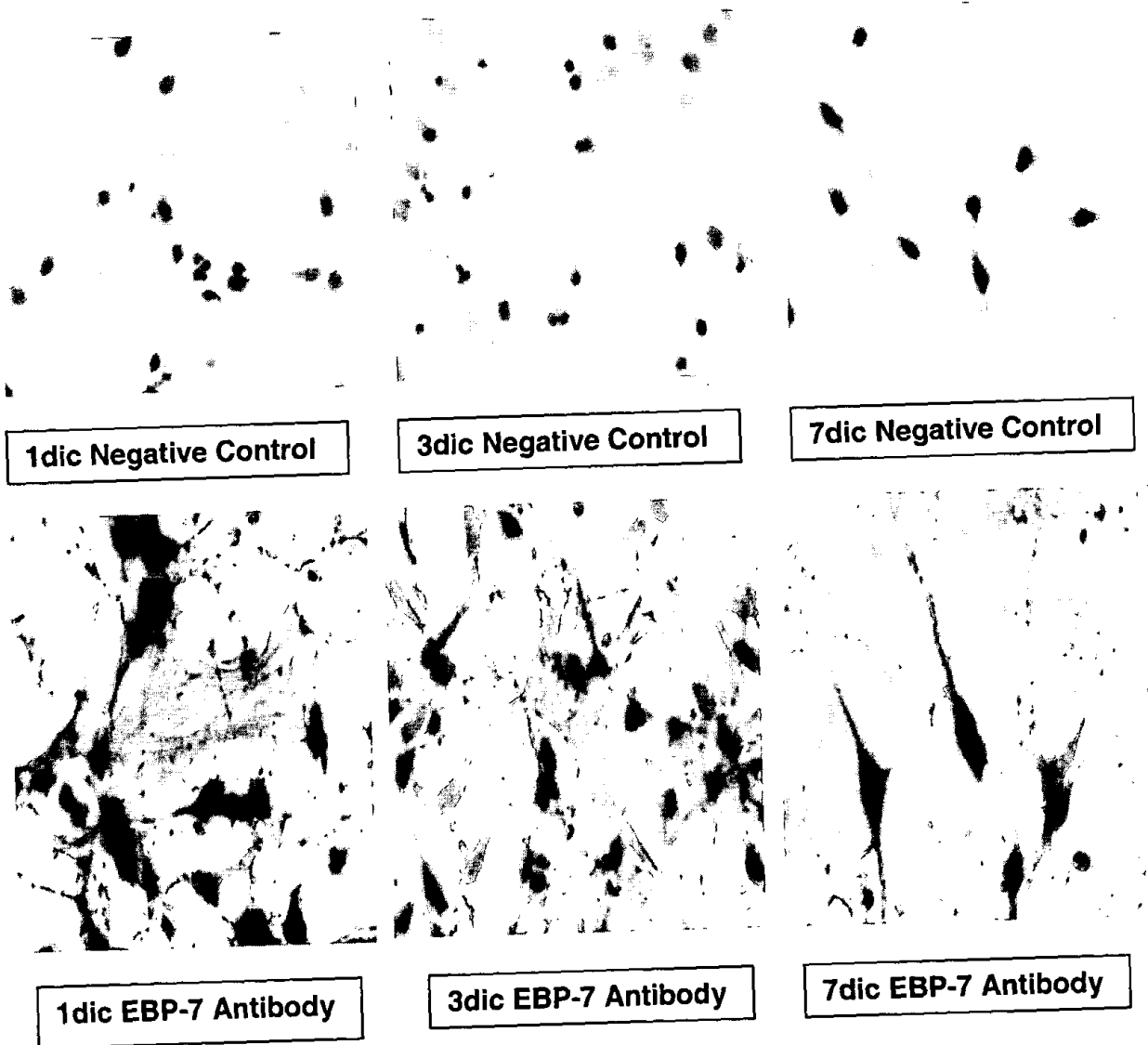


FIGURE 1B

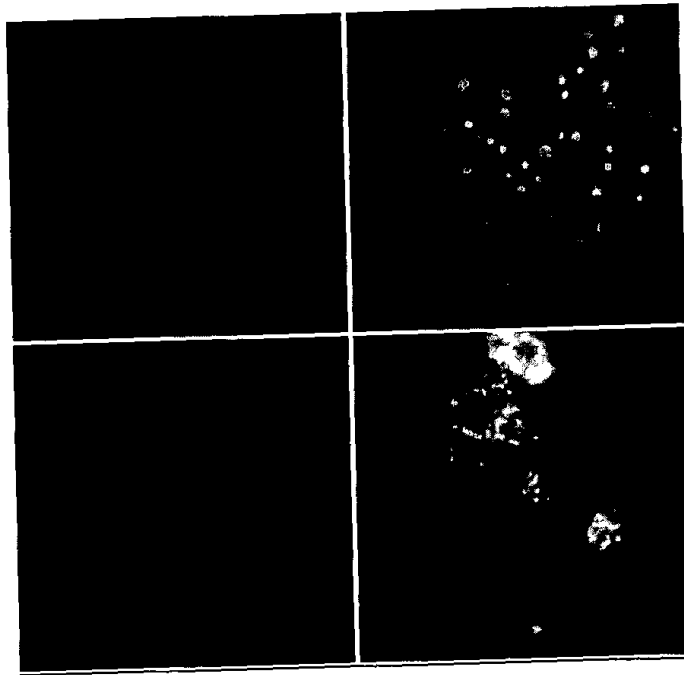
RAT HIPPOCAMPAL CULTURES EXPRESS EPO RECEPTOR



09563600"05201

FIGURE 2

EPO RECEPTOR IS EXPRESSED ON PC12 AND SK-N-MC CELLS

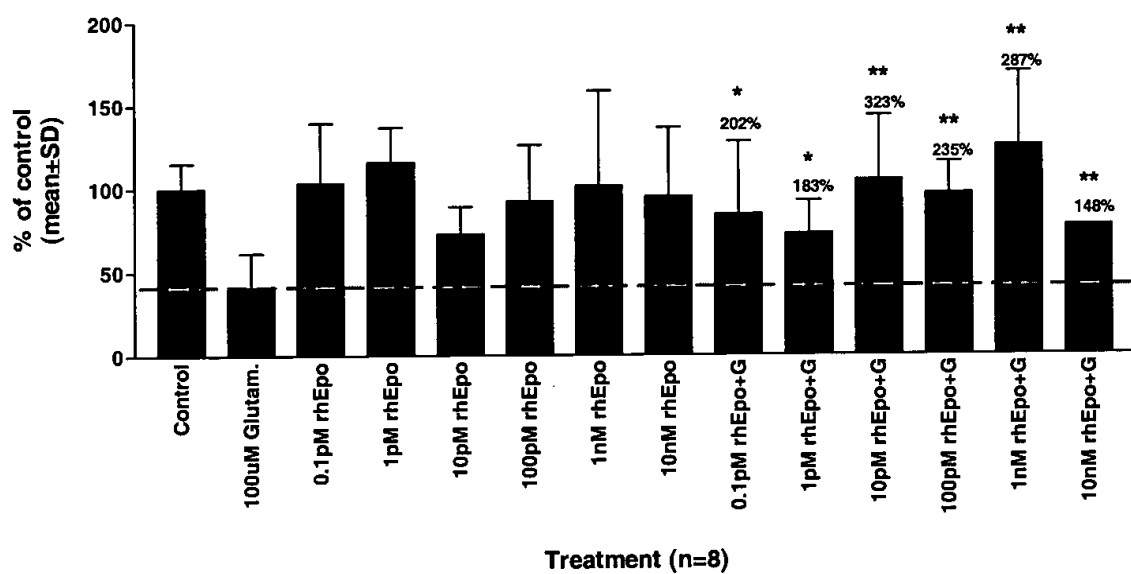


09863600-052301

**Erythropoietin regulates the expression of the BCL family members Bcl<sub>XL</sub> and Bak.**

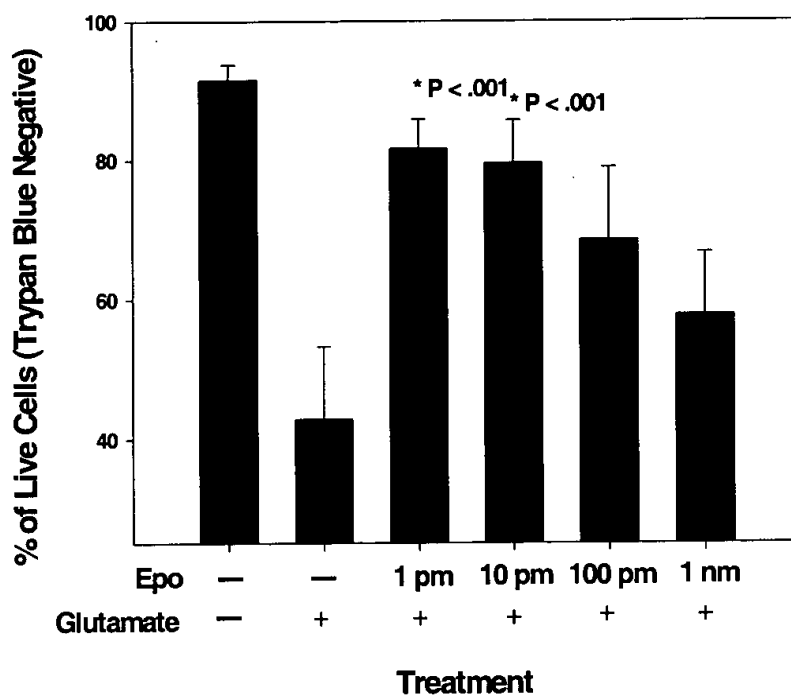
FIGURE 4

EPO PROTECTS RAT CEREBRAL CORTICAL CELLS FROM  
GLUTAMATE TOXICITY



t-test (one-tailed) comparison between treatments \*  $p < 0.01$ ; \*\*  $p < 0.001$

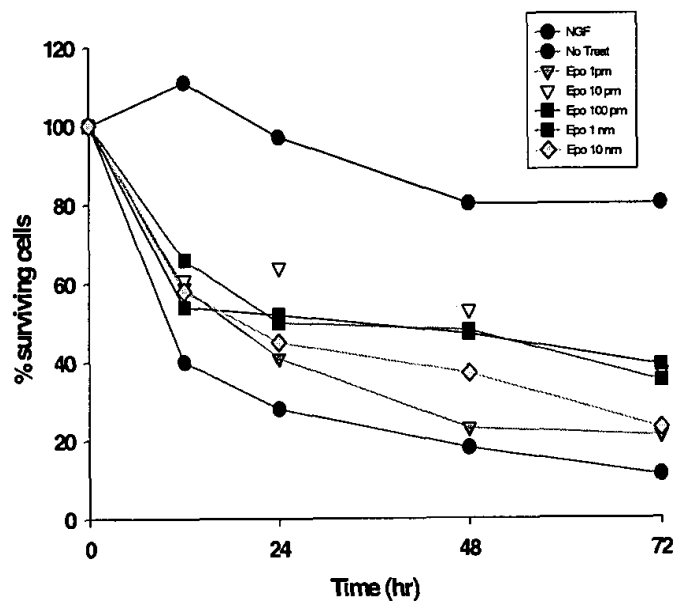
FIGURE 5

EPO PROTECTS PC12 CELLS FROM GLUTAMATE-INDUCED CELL DEATH

Erythropoietin protects PC-12 cells from glutamate mediated cytotoxicity.

FIGURE 6

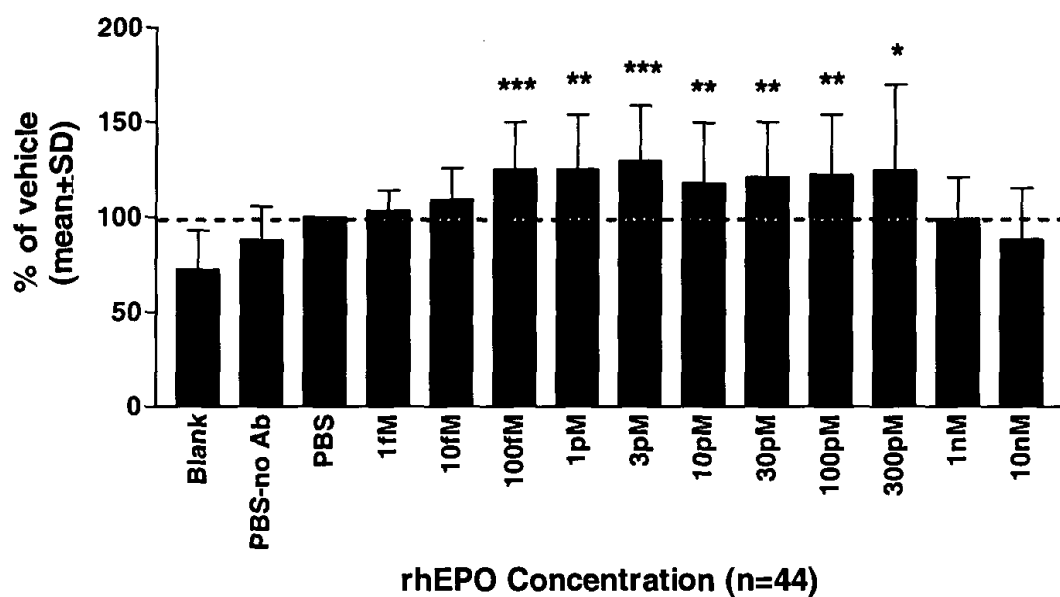
EPO PROTECTS PC12 CELLS FROM NGF WITHDRAWAL-INDUCED  
CELL DEATH



Erythropoietin protects PC-12 cells against death induced  
bv NGF withdrawal.

FIGURE 7

EPO PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES

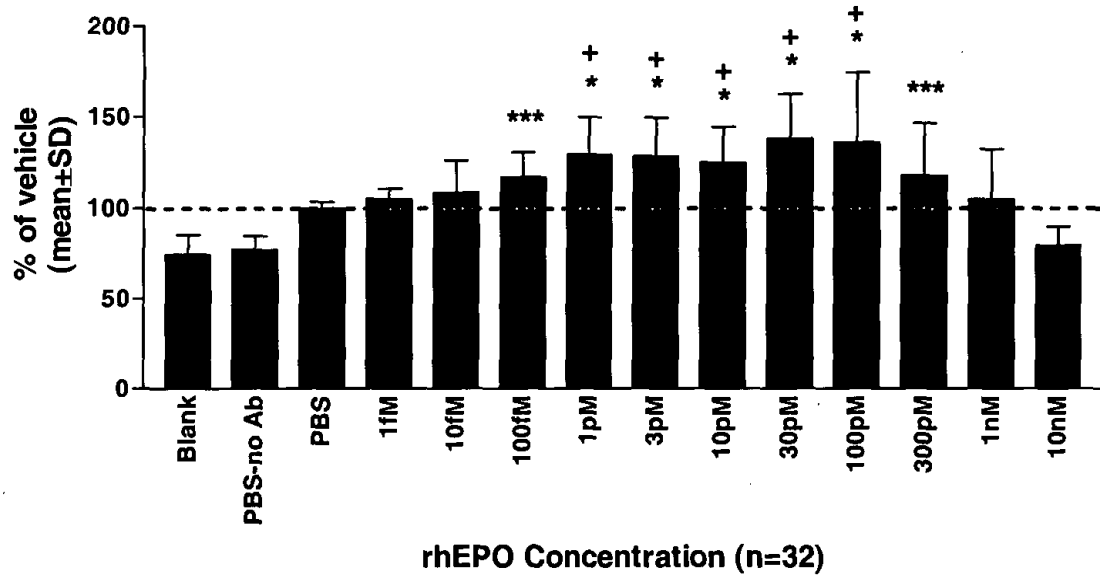


One-way ANOVA comparison between groups  $p < 0.0001$ ;  
 Dunnett's multiple comparison test  $p > 0.05$ , ns  
 unpaired t-test (one-way) \* $p < 0.05$ ; \*\* $p < 0.01$ , \*\*\* $p < 0.001$



**FIGURE 8**

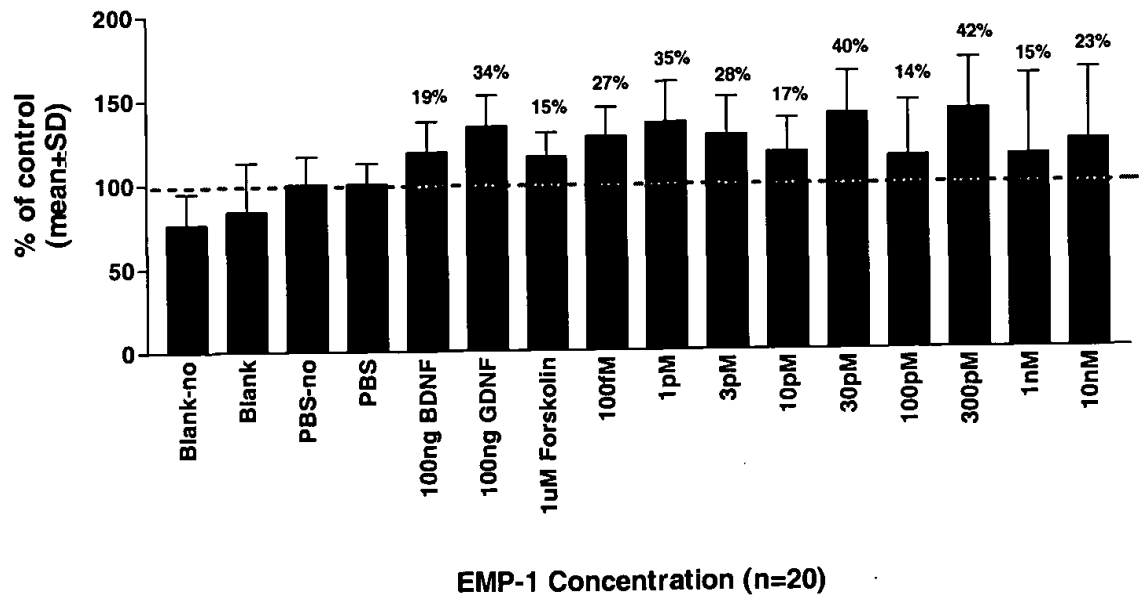
**EPO PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES**



One-way ANOVA comparison between treatment groups  $p < 0.0001$ ;  
Dunnett's multiple comparison test  $*p < 0.01$ ;  
unpaired t-test (one-tailed)  $***p < 0.001$ ;  $+ p < 0.0001$

FIGURE 9

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES



10.250.0099960

FIGURE 10

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

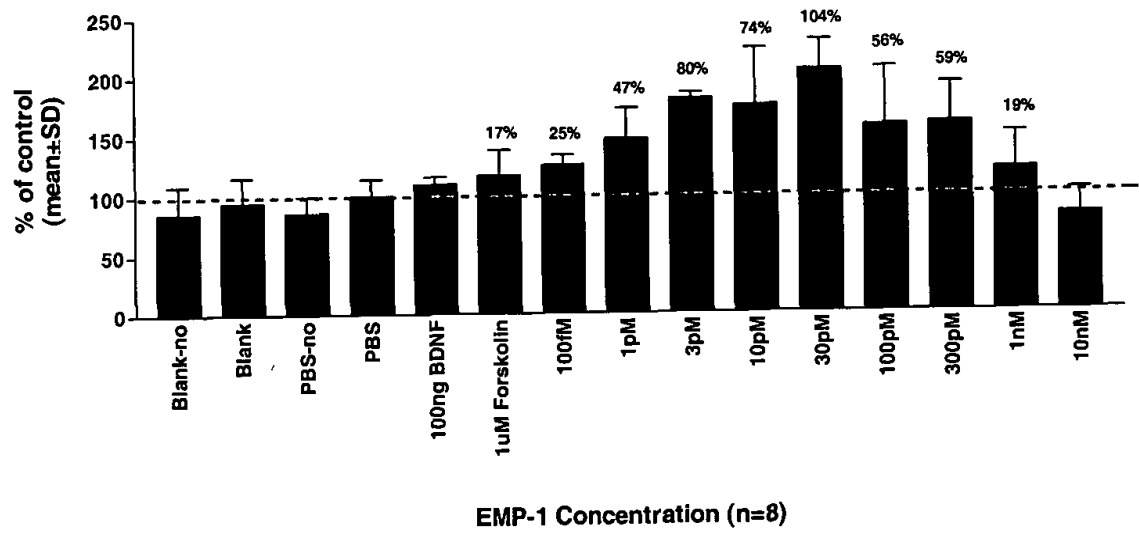
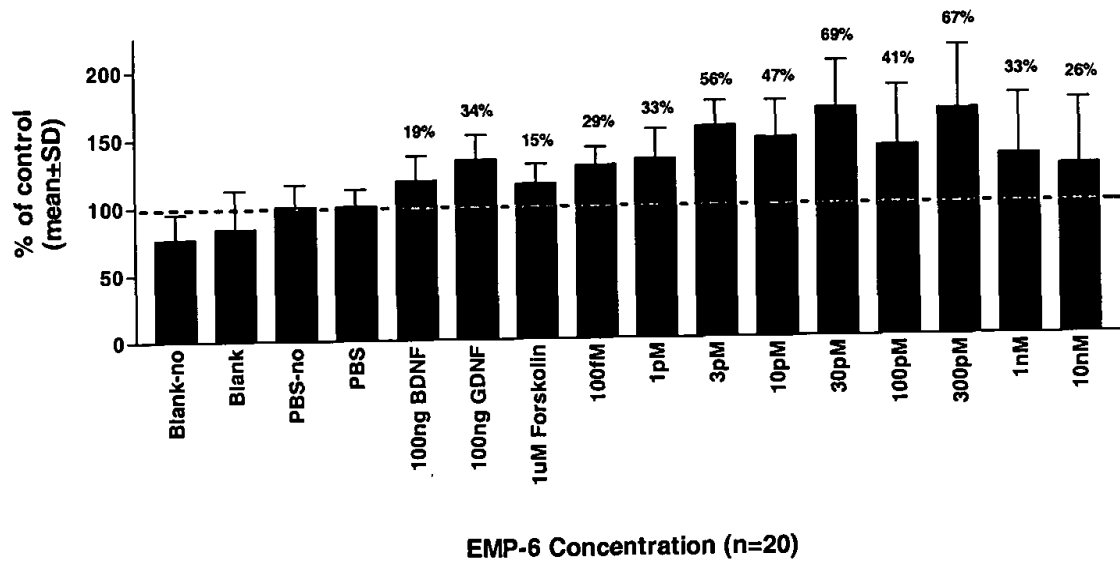


FIGURE 11

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES



FOE250" 009E9860

FIGURE 12

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

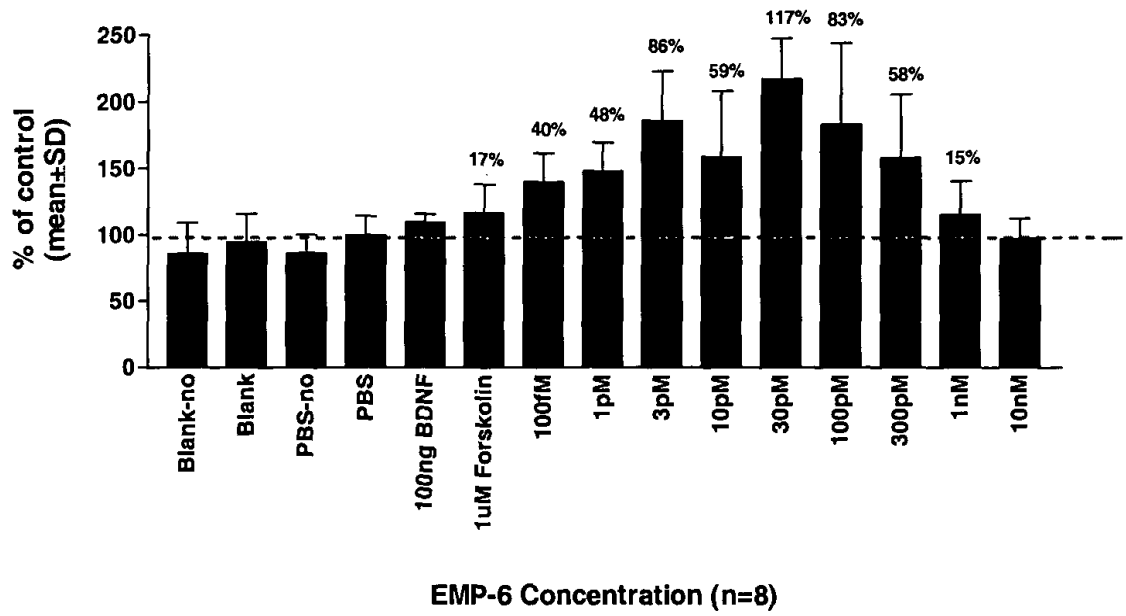


FIGURE 13

EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES

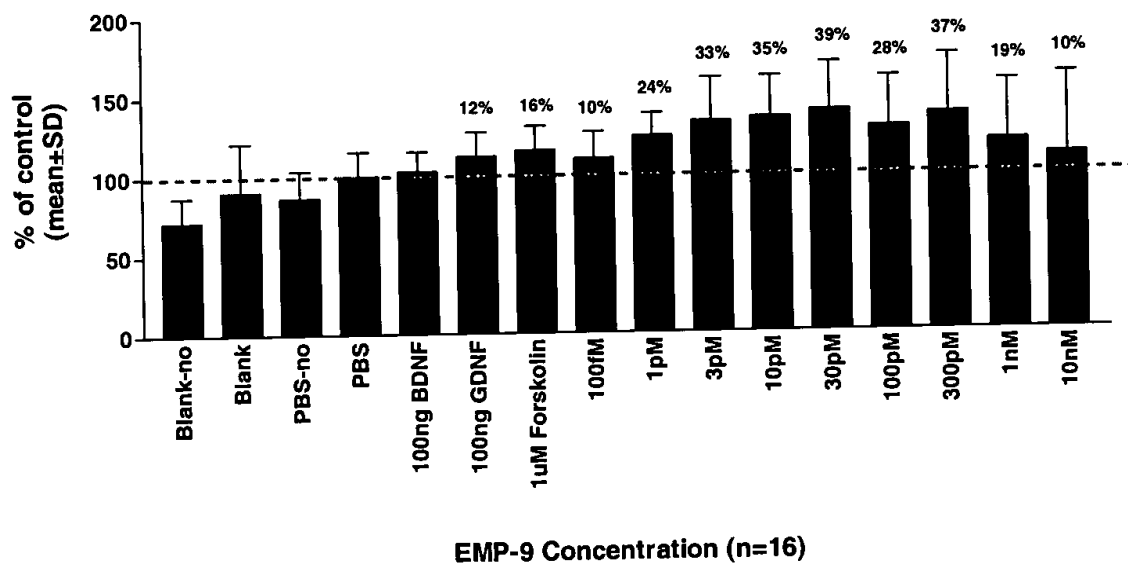
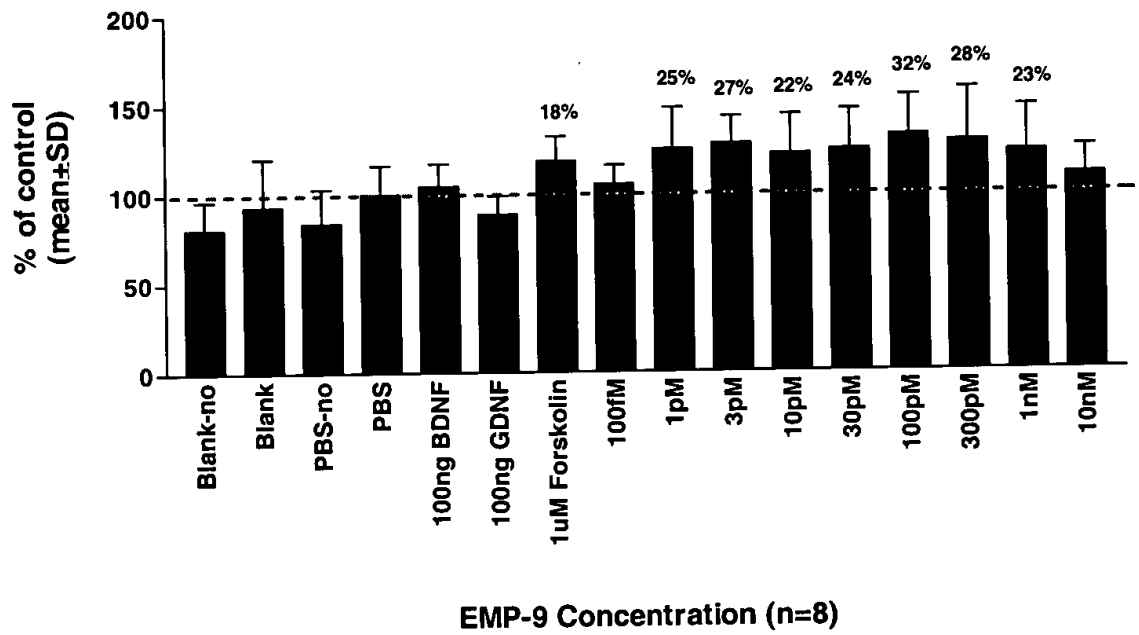


FIGURE 14

EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES



10.250.00959350

**FIGURE 15**

**EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES**

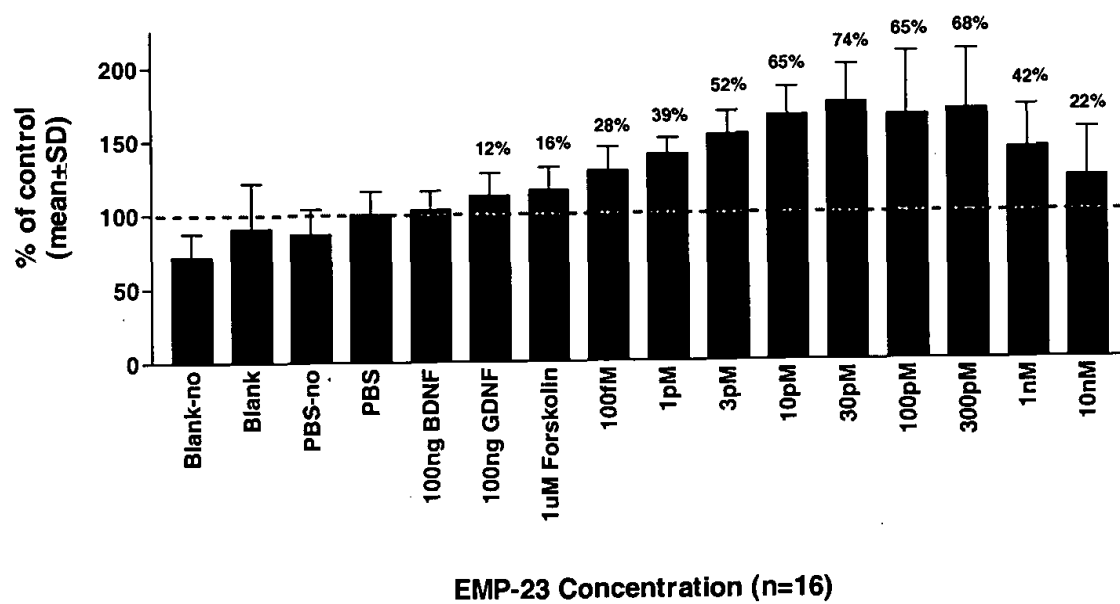




FIGURE 16

EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT  
HIPPOCAMPAL CULTURES

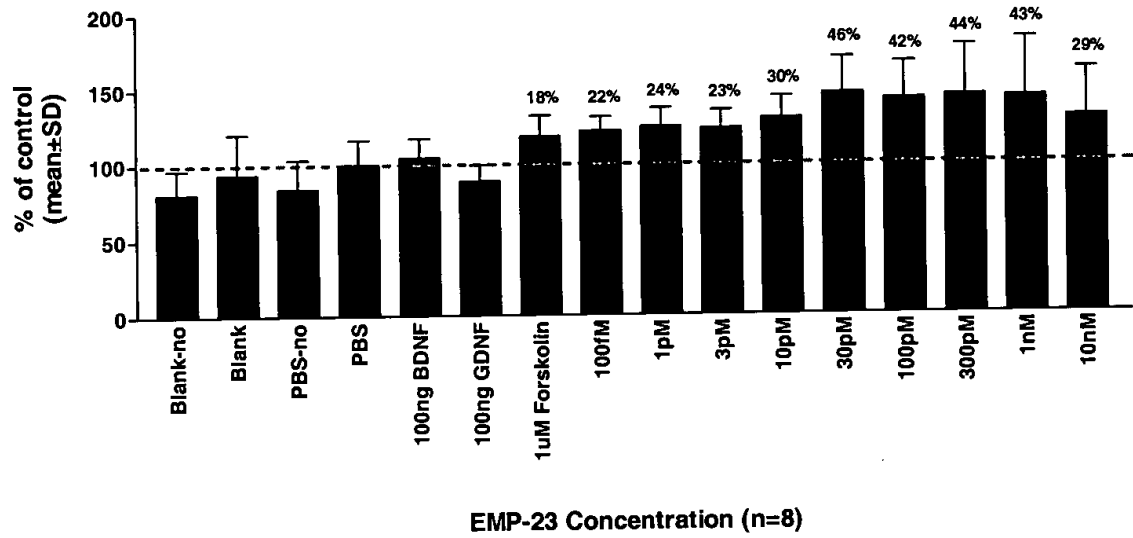


FIGURE 17

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL  
CORTICAL CULTURES

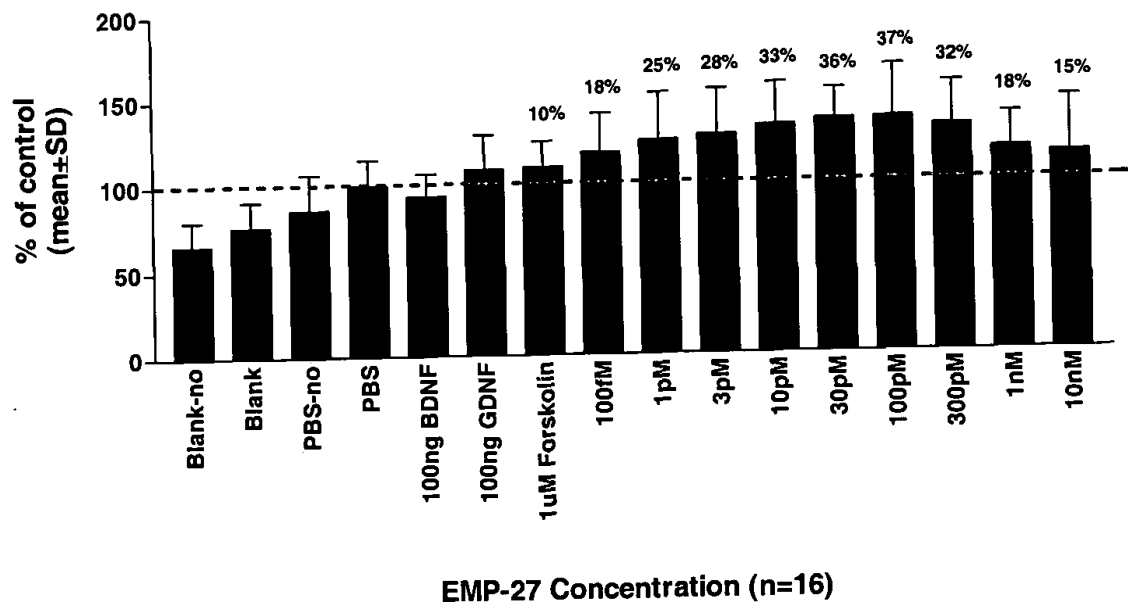
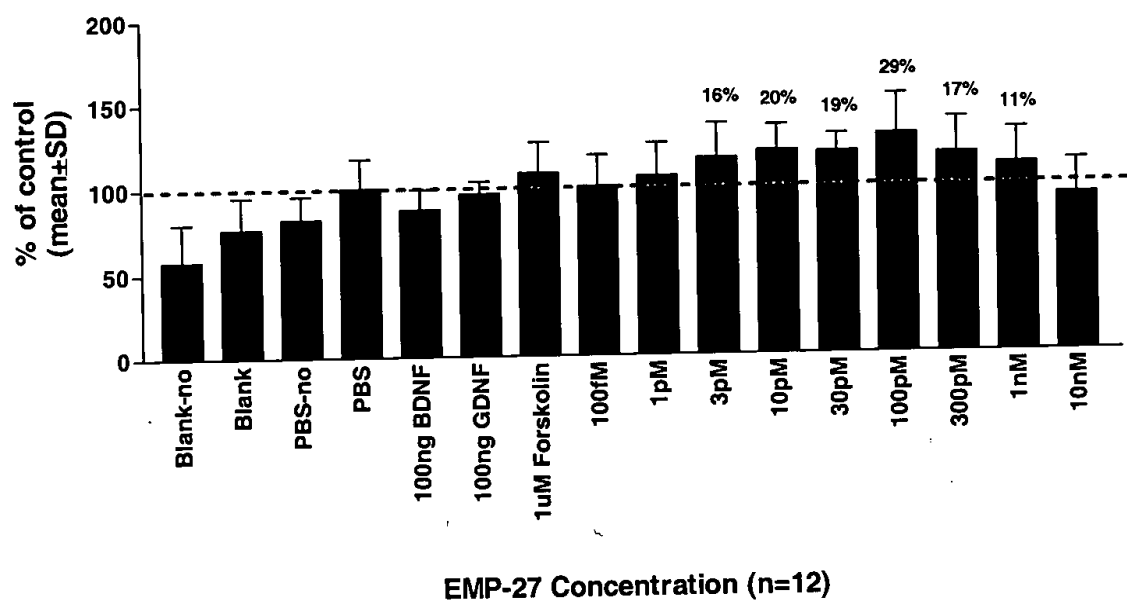


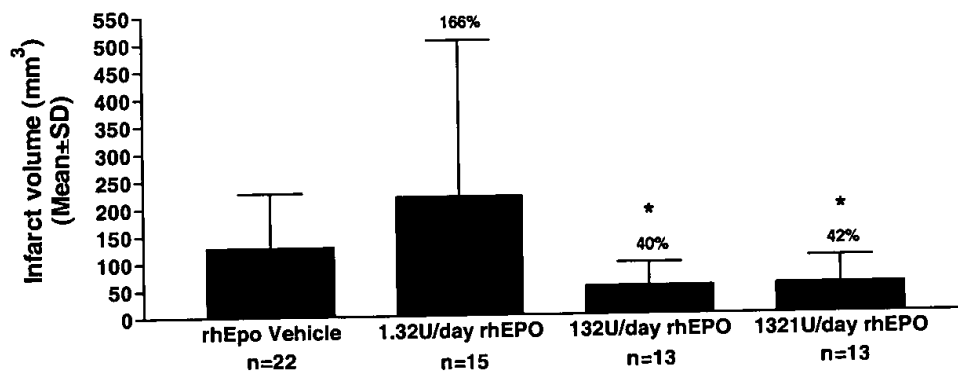
FIGURE 18

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT  
HIPPOCAMPAL CULTURES



**FIGURE 19**

## STUDY I: EPO PROTECTS AGAINST ISCHEMIC INJURY BY CONTINUOUS INTRAVENOUS INFUSION VIA OSMOTIC MINI-PUMP

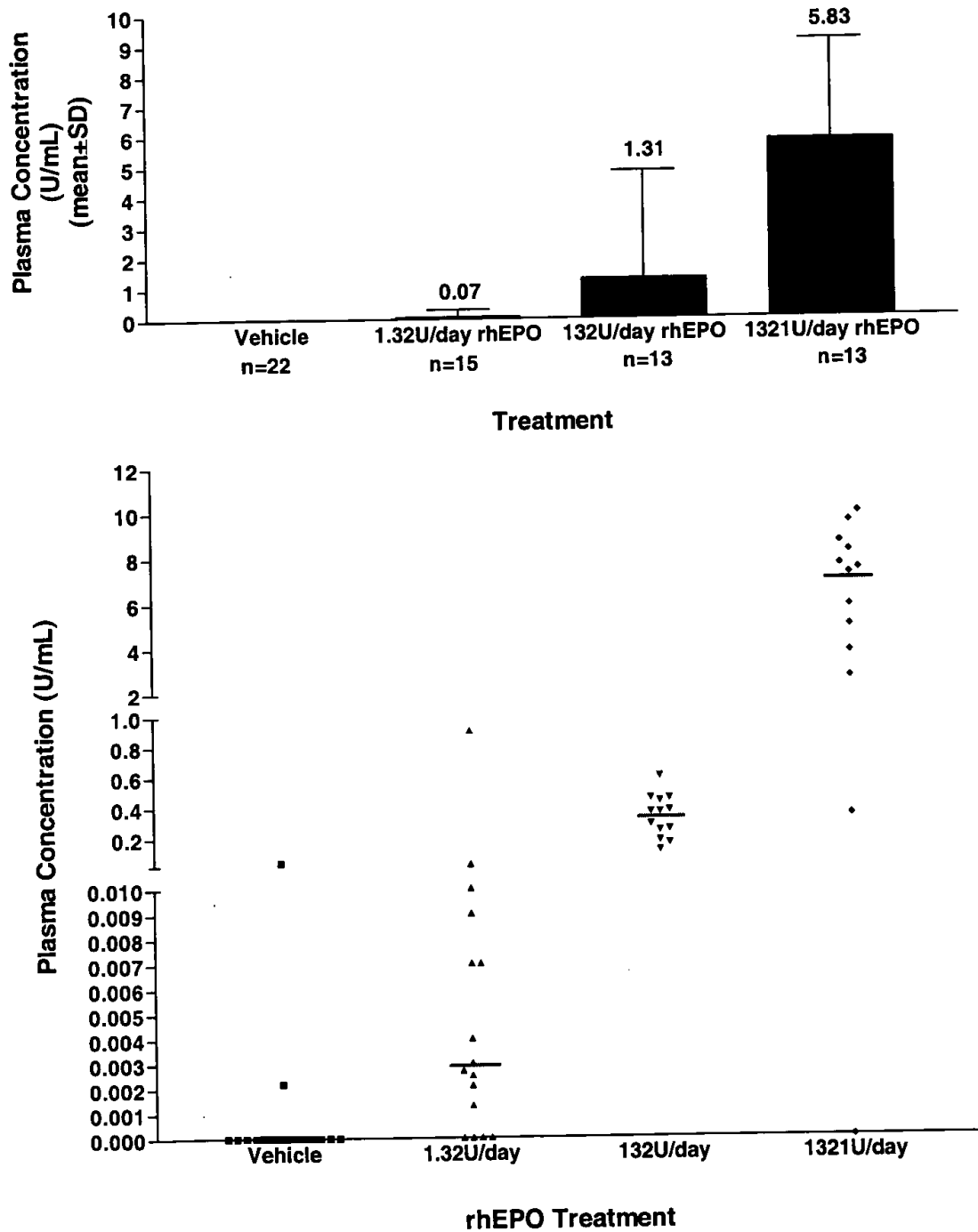


One-way ANOVA comparison between treatments  $p=0.01$   
t-test (one-tailed) comparison between treatments \*  $p\leq 0.01$

09863600 0530  
T06250" 009E9860

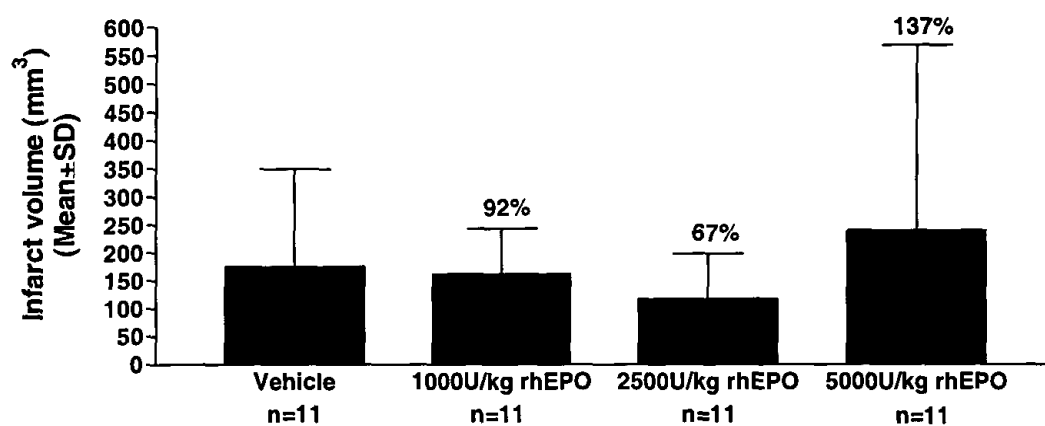
FIGURE 20

STUDY I: PLASMA DETERMINATIONS



**FIGURE 21**

**STUDY II: EPO DOES NOT PROTECT AGAINST ISCHEMIC INJURY WHEN  
ADMINISTERED AS A SINGLE INTRAVENOUS BOLUS**

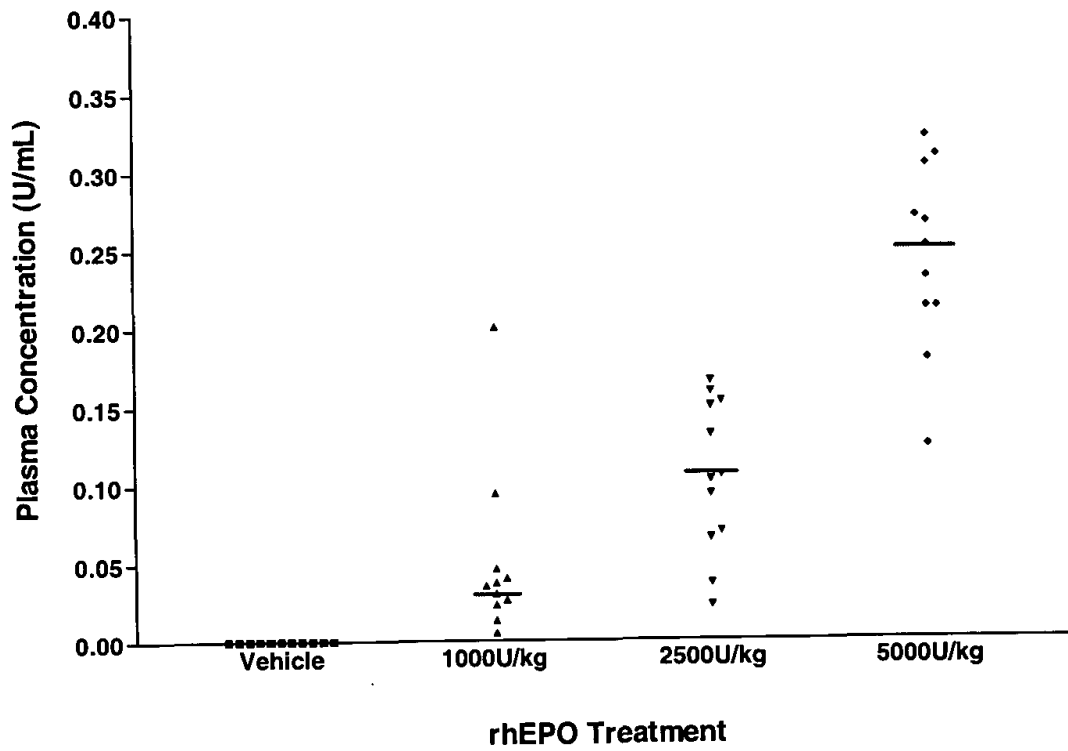
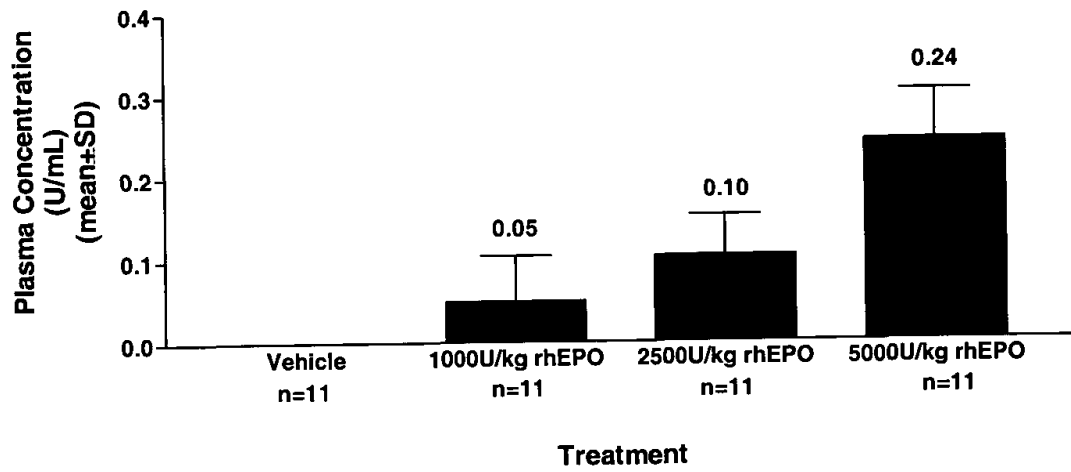


One-way ANOVA comparison between treatment groups;  $p>0.05$ , n.s.

09063600.052371  
TUE250"009E9860

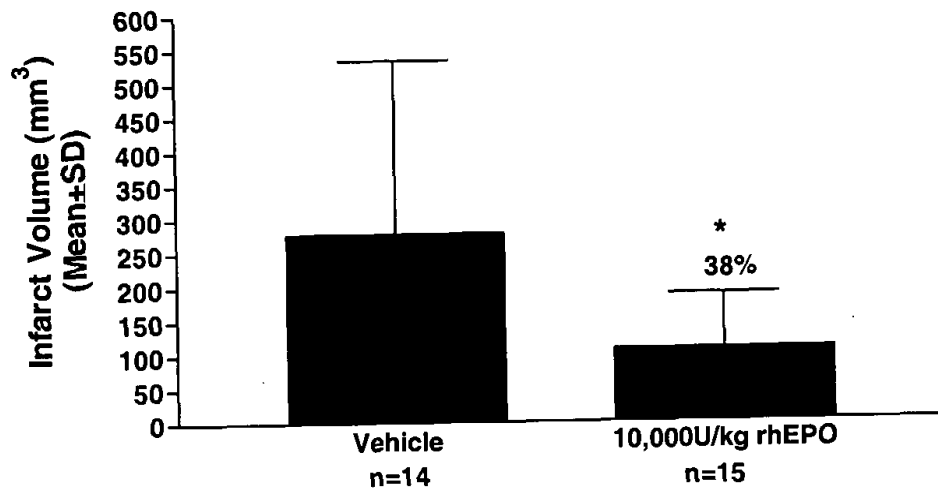
FIGURE 22

STUDY II: PLASMA DETERMINATIONS



**FIGURE 23**

**STUDY III: EPO PROTECTS AGAINST ISCHEMIC INJURY VIA REPEAT  
INTRAVENOUS BOLUS DOSING**



One-way ANOVA comparison between treatment groups  $p=0.02$   
Dunnett's multiple comparison t-test \*  $p<0.05$



FIGURE 24

STUDY III: PLASMA DETERMINATIONS

Study III: Plasma Concentration

